

San Joaquin Valley Unified Air Pollution Control District

PERMIT UNIT: C-246-1-2

EXPIRATION DATE: 9/30/2000

EQUIPMENT DESCRIPTION:

15 HP FIBERGLASS PRODUCTS MANUFACTURING FACILITY WITH POLYESTER RESIN STORAGE, POLYMER CONCRETE MOLDING, POLYESTER RESIN MOLDING AND LAYUP, AND CUTTING, SANDING, AND GRINDING PROCESSES.

Permit Unit Requirements

1. All equipment shall be maintained in good operating condition and shall be operated in a manner to minimize emissions of air contaminants into the atmosphere. [District NSR Rule] Federally Enforceable Through Title V Permit
2. Closed, non-absorbent containers shall be used for storage and disposal of all VOC emitting material. [District Rule 4684, 5.3; District NSR Rule] Federally Enforceable Through Title V Permit
3. All resins, catalysts, and solvents shall be stored in closed, non-absorbent containers. [District Rule 4684, 5.3; District NSR Rule] Federally Enforceable Through Title V Permit
4. Spray devices shall not be used to apply resins or coatings that contain Volatile Organic Compounds. [District Rule 4684, 5.1.2; District NSR Rule] Federally Enforceable Through Title V Permit
5. All polyester resin used at this facility shall be of a vapor suppressed formulation (containing a substance added to resin to minimize the transfer of monomer vapor into the atmosphere such that weight loss from the VOC emissions does not exceed 60 grams per square meter of exposed surface during resin polymerization), or contain 34% or less styrene monomer by weight. [District NSR Rule; District Rule 4684, 5.1.1] Federally Enforceable Through Title V Permit
6. VOC emissions from the closed molded polymer concrete (machine mixed) fabrication process shall not exceed 1.5% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit
7. VOC emissions from the closed molded polymer concrete (hand mixed) fabrication process shall not exceed 3.0% by weight of the styrene monomer

present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

8. VOC emissions from the open molded polymer concrete (machine mixed) fabrication process shall not exceed 2.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

9. VOC emissions from the open molded polymer concrete (hand mixed) fabrication process shall not exceed 3.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

10. VOC emissions from the closed molded fiberglass-reinforced plastic (machine wetout) fabrication process shall not exceed 3.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

11. VOC emissions from the closed molded fiberglass-reinforced plastic (manual wetout) fabrication process shall not exceed 5.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

12. VOC emissions from the hand lay-up fiberglass-reinforced plastic (machine wetout) fabrication process shall not exceed 7.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

13. VOC emissions from the hand lay-up fiberglass-reinforced plastic (manual wetout) fabrication process shall not exceed 10.0% by weight of the styrene monomer present in the polyester resin. [District NSR Rule] Federally Enforceable Through Title V Permit

14. Total emissions of VOCs from this facility shall not exceed 250 pounds per day. [District NSR Rule] Federally Enforceable Through Title V Permit

15. Records shall be kept in accordance with section 6.1 of District Rule 4684 Polyester Resin Operations (last amended 5/19/94) for each of the eight processing operations. [District Rule 4684; District Rule 2520, 9.4.2; District NSR Rule] Federally Enforceable Through Title V Permit

16. Dust from sanding, cutting, and grinding operations shall be collected, stored, and disposed of in closed containers. [District NSR Rule] Federally Enforceable Through Title V Permit

17. Particulate matter emissions shall not exceed 0.1 gr/scf. [District Rule 4201] Federally Enforceable Through Title V Permit

18. Test methods used for the analysis of cleaning materials and polyester resin materials shall be as follows: the emission rate per square meter of exposed surface during polymerization of Polyester Resins is to be determined using SCAQMD Method 309; The monomer content of uncatalyzed resin materials is to be determined using ASTM D2369-87 or SCAQMD Test Method 312; and the VOC content of cleaning materials shall be determined using EPA Method 24. [District Rule 4684, 6.2; District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

19. Cleaning materials containing more than 1.7 pounds of VOC per gallon shall not be used except in enclosed equipment cleaners, or up to 4 gallons per day to clean molds, spray equipment or other dispensing equipment tools used in gel coat or specialty resin operations that come in direct contact with polyester resin products. [District Rule 4684, 5.2.1] Federally Enforceable Through Title V Permit

20. The VOC emissions rate during fabrication shall be determined and recorded annually as a percentage of the weight loss of styrene monomer in the resin. The weight loss shall be determined by SCAQMD Method 309 or by a mass balance test on a representative sample for each of the layup and molding processes being employed by the facility. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

21. During a weight loss test, a precision scale with adequate capacity shall be used; each representative sample shall be allowed to off-gas for at least 24 hours; the mass balance shall include accurate measurements of the amount of resin applied, the amount of fiberglass and catalyst used, and the initial and final weights of all tools used in the fabrication process; and all times and parameters measured in the test shall be recorded. [District Rule 2520, 9.4.2] Federally Enforceable Through Title V Permit

22. Compliance with permit conditions in the Title V permit shall be deemed compliance with the following applicable requirements: District Rules 4201 (12/17/92), 4202 (12/17/92), 4623 (12/17/92), and 4684 (5/19/94). A permit shield is granted from these requirements. [District Rule 2520, 13.2] Federally Enforceable Through Title V Permit